

PTO/SB/08A (08-03)

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Substitute Form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 7

Complete if Known

Application Number	10/785,266
Filing Date	February 24, 2004
First Named Inventor	Collins <i>et al.</i>
Group Art Unit	Unassigned 1616
Examiner	Unassigned DJones
Attorney Docket Number	11138.105030 MAYO 1003 CON

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pgs, Clms, Lns, Where Relevant Passages/Relevant Figs Appear
		Number	Kind Code (if known)			
TS	AA	3,627,788	A	Bouchaudon	11-27-1968	
	AB	3,936,440	A	Nath	02-03-1976	
	AC	3,981,863	A	Niswender <i>et al.</i>	09-21-1976	
	AD	4,209,614	A	Bernstein <i>et al.</i>	06-24-1980	
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	AF	4,283,342	A	Yollees	08-11-1981	
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	AL	5,308,606	A	Wilson <i>et al.</i>	05-03-1994	
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	AAB	5,869,466	A	Russell-Jones <i>et al.</i>	02-09-1999	
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	AAE	5,936,082	A	Bauer	08-10-1999	

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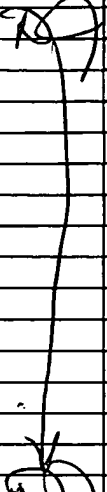
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				Application Number	10/785,266
				Filing Date	February 24, 2004
				First Named Inventor	Collins <i>et al.</i>
				Group Art Unit	Unassigned 1c1c
				Examiner Name	Unassigned D. Jones
Sheet	2	of	7	Attorney Docket Number	11138.105030 MAYO 1003 CON

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		Number	Kind Code (if known)			
	BA	6,004,533	A	Collins <i>et al.</i>	12-21-1999	
	BB	6,074,625	A	Hawthorne <i>et al.</i>	06-13-1900	
	BC	6,083,926	A	Morgan <i>et al.</i>	07-04-2000	
	BD	6,083,966	A	Bergeron, Jr.	07-04-2000	
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	BF	6,150,341	A	Russell-Jones, <i>et al.</i>	11-21-2000	
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	BJ	6,315,978	B1	Grissom <i>et al.</i>	11-13-2001	
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	BO	2003/0144198	A1	Collins	07-31-2003	
	BP	6,613,305	A1	Collins <i>et al.</i>	09-02-2003	

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		Office ³	Number	Kind Code ² (if known)		
BQ	AU	04490099	A1	Biotech Australia Pty. Ltd.	01-05-2000	
BR	DE	1,811,518		Rhone-Poulenc S.A. (Bouchaudon) <i>Chem. Abstr.</i> 71:91866s (1969)	07-10-1969	
BS	EP	0 005 834	A1	E.R. Squibb & Sons, Inc.	12-12-1979	
BT	EP	0 069 450	A1	Technicon Instruments Corp.	01-12-1983	
BU	EP	0 165 716	A1	Micromedex Systems Inc.	12-27-1985	
BV	JP	58-046027	A2	Nippon Meijifujitsukusu KK	03-17-1983	
BW	WO	89/01475	A1	Celltech Ltd.; Parker; Millican	02-23-1989	
BX	WO	92/09610	A1	University of California	06-11-1992	
BY	WO	92/13571	A1	Dow Chemical Company	08-20-1992	
BZ	WO	94/27613	A1	Biotech Australia Pty. Ltd. <i>et al.</i>	12-08-1994	
BAA	WO	94/27641	A1	Biotech Australia Pty. Ltd. <i>et al.</i>	12-08-1994	
BAB	WO	95/27723	A1	Morgan; Wilbur; Pathare	10-19-1995	

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Examiner Signature		Date Considered	2/18/05
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				Filing Date	February 24, 2004
				First Named Inventor	Collins <i>et al.</i>
				Group Art Unit	Unassigned 1616
				Examiner Name	Unassigned <i>RD Jones</i>
Sheet	3	of	7	Attorney Docket Number	11138.105030 MAYO 1003 CON

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		Office ²	Number	Kind Code ³ (if known)		
<i>RD</i>	CA	WO	96/04016	A1	Amgen Inc.	02-15-1996
	CB	WO	96/27641	A1	BioTech Australia	12-08-1994
	CC	WO	96/31243	A1	The DuPont Merck Pharm. Co.	10-10-1996
	CD	WO	97/14711	A1	Receptagen; Univ. Washington	04-24-1997
	CE	WO	97/18231	A1	Regents of Univ. Minnesota	05-22-1997
	CF	WO	97/33627	A2	The DuPont Merck Pharm. Co.	09-18-1997
	CG	WO	98/08859	A1	Univ. Utah Res. Found.	03-05-1998
	CH	WO	99/65930	A1	Biotech Australia Pty. Ltd.	12-23-1999
	CI	WO	00/45857	A2	Schering AG	08-10-2000
	CJ	WO	00/62808	A2	Univ. Minnesota	10-26-2000
	CK	WO	00/74721	A1	Biotech Australia Pty. Ltd.	12-14-2000
	CL	WO	01/28592	A1	Mayo Found.; U. Minnesota	04-26-2001
	CM	WO	01/28595	A1	Mayo Found.; U. Minnesota	04-26-2001
	CN	WO	01/30967	A2	Univ. Utah Res. Found. <i>et al.</i>	05-03-2001
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	CP	WO	01/92288	A2	Collins; Mayo Found.; U. Minn.	12-06-2001
	CQ	WO	02/042318	A2	Collins; Mayo Found.; U. Minn.	05-30-2002
	CR	WO	02/055530	A2	Mayo Found.; U. Minnesota	07-18-2002
	CS	WO	03/000010	A2	Collins	01-21-2003
	CT	WO	03/025139	A2	Mayo Found.	03-27-2003

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				T 6
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	CU	ALAM, G. <i>et al.</i> , "Boronated compounds for neutron capture therapy," <i>Strahlentherapie und Onkologie</i> , 165(2/3):121-123 (1989).		
	CV	ALLEN, R.H., <i>et al.</i> , "Isolation of gastric vitamin B ₁₂ -binding proteins using affinity chromatography," <i>J. Biol. Chem.</i> , 248(10):3660-3669 (May 25, 1973).		
	CW	ALLEN, R.H., <i>et al.</i> , "Isolation of vitamin B ₁₂ -binding proteins using affinity chromatography," <i>J. Biol. Chem.</i> , 247(23):7695-7701 (December 10, 1972).		
	CX	AMAGASAKI, T., <i>et al.</i> , "Expression of transcobalamin II receptors by human leukemia K562 and HL-60 cells," <i>Blood</i> , 76(7):1380-1386, (October 1, 1990).		

Examiner Signature	<i>RD Jones</i>	Date Considered	2/18/05
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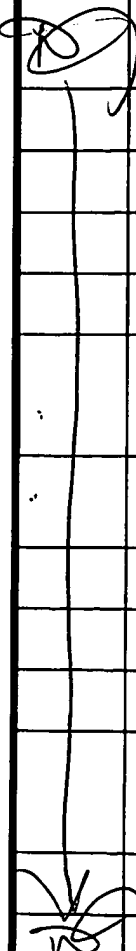
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		Application Number	10/785,266		
		Filing Date	February 24, 2004		
		First Named Inventor	Collins <i>et al.</i>		
		Group Art Unit	Unassigned 1618		
		Examiner Name	Unassigned D Jones		
Sheet	4	of	7	Attorney Docket Number	11138.105030 MAYO 1003 CON

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 6
	DA	ANTON, D.L., <i>et al.</i> , "Carbon-13 nuclear magnetic resonance studies of the monocarboxylic acids of cyanocobalamin. Assignments of the B-, D-, and E-monocarboxylic acids," <i>J. Am. Chem. Soc.</i> , 102(7):2215-2219 (March 26, 1980).	
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	DC	BEGLEY, J.A., <i>et al.</i> , "Cobalamin metabolism in cultured human chorionic villus cells," <i>J. Cell Physiol.</i> 156(1):43-47 (July 1993).	
	DD	BERNHAEUER, K., <i>et al.</i> , "Zur Chemie und Biochemie der Corrinoides," <i>Biochem. Z.</i> , 344:289-309 (1966).	
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	DF	BREEMAN, W.A., <i>et al.</i> , "Indium-111 labeled DTPA- and DOTA-bombesin analogs for receptor scintigraphy and radiotherapy," in Scientific Papers (June 9, 1999), Proc. of the 46 th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), <i>J. Nuc.Med.</i> , 40(5):102P, Abstract no. 413 (May 1999 supplement).	
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	DI	COLLINS, D.A., <i>et al.</i> , "Tumor imaging via indium 111-labeled DTPA-adenosylcobalamin," <i>Mayo Clinic Proc.</i> , 74(7):687-691 (July 1999).	
	DJ	COOPER, B.A., <i>et al.</i> , "Selective uptake of specifically bound cobalt-58 vitamin B12 by human and mouse tumour cells," <i>Nature</i> , 191, 393-395 (July 1961).	
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	DL	ELLENBOGEN, L., "Absorption and transport of cobalamin: Intrinsic factor and the transcobalamins," <i>Cobalamin: Biochemistry and Pathophysiology</i> , Babor, Ed., Wiley, New York (1975), Chapter 5.	
DM	FAIRCHILD, R.G., <i>et al.</i> , "Current status of 10-B-neutron capture therapy: enhancement of tumor dose via beam filtration and dose rate, and the effects of these parameters on minimum boron content: A theoretical evaluation," <i>Int. J. Radiation Oncology, Biology, Physics</i> , 11(4):831-840 (April 1985).		

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		Group Art Unit	Unassigned <i>11016</i>		
		Examiner Name	Unassigned <i>W. Jones</i>		
Sheet	5	of	7	Attorney Docket Number	11138.105030 MAYO 1003 CON

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<i>TD</i>	EA	FINKLER, A.E., <i>et al.</i> , "Nature of the relationship between vitamin B12 binding and cell uptake," <i>Arch. Biochem. Biophys.</i> , 120(1):79-85 (April 1967).	
	EB	FLODH, H., <i>et al.</i> , "Accumulation of labelled vitamin B12 in some transplanted tumours," <i>Int. J. Cancer</i> , 3(5):694-699 (September 15, 1968).	
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	EF	HATANAKA, H., "A revised boron-neutron capture therapy for malignant brain tumors," <i>Journal of Neurology</i> , 209:81-94 (1975).	
	EG	HATANAKA, H., <i>et al.</i> , "Chapter XXV: Clinical Experience of Boron-Neuron Capture Therapy for Gliomas -- A Comparison with Conventional Chemo-Immuno-Radiotherapy," pp. 349-379. (undated)	
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	EI	HOGENKAMP, H. <i>et al.</i> , "Synthesis and Characterization of nido-Carborane-Cobalamin Conjugates," <i>Nucl. Med. & Biol.</i> , 27:89-92 (2000).	
	EJ	HOGENKAMP, H. P. C., Chemical synthesis and properties of analogs of adenosylcobalamin, <i>Biochemistry</i> , 13(13):2736-2740 (1974).	
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	EL	ICHIHASHI, M., <i>et al.</i> , "Specific killing effect of ¹⁰ B ₁ -para-boronophenylalanine in thermal neutron capture therapy of malignant melanoma: <i>In vitro</i> radiobiological evaluation," <i>The Journal of Investigative Dermatology</i> , 78(3):215-218 (1982).	
	EM	JACOBSEN, D.W., <i>et al.</i> , "Rapid purification of cobalamin-binding proteins using immobilized aminopropylcobalamin," <i>Anal. Biochem.</i> , 113:164-171 (1981).	
<i>W</i>	EN	KIKUGAWA, K., <i>et al.</i> , "Direct halogenation of sugar moiety of nucleosides," <i>Tetrahedron Letters</i> , 1971(2):87-90 (1971).	
<i>TD</i>	EO	KAHL, S.B., <i>et al.</i> , "Chemical and biological studies on boronated tetraphenyl porphyrins," <i>Boron Chemistry</i> , 61-67	

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Submitted for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/785,266
				Filing Date	February 24, 2004
				First Named Inventor	Collins <i>et al.</i>
				Group Art Unit	Unassigned 1616
				Examiner Name	Unassigned D. Jones
Sheet	6	of	7	Attorney Docket Number	11138.105030 MAYO 1003 CON

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	FA	LASTER, B.H., <i>et al.</i> , "Biological efficacy of a boronated porphyrin as measured in cell culture," <i>Strahlentherapie und Onkologie</i> , 165(2/3):203-205 (1989).	
	FB	LINDEMANS, J., <i>et al.</i> , "Uptake of transcobalamin II-bound cobalamin by HL-60 cells: effects of differentiation induction," <i>Experimental Cell Research</i> , 184(2):449-460 (Oct. 1989).	
	FC	LUO, S.Z., "Studies on bone tumor therapeutic radiopharmaceuticals.IV. Investigation of the structure-activity relationships (SARS) of ¹⁵³ Sm-aminocarboxylate complexes," in Poster Sessions, Proc. of the 46 th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), <i>J. Nuc. Med.</i> , 40(5):316P, Abstract no. 1386 (May 1999 supplement).	
	FD	McBRIDE, W.J., "A general method for the introduction of metal binding ligands onto the side chains of peptides during peptide synthesis," in Scientific Papers (June 9, 1999), Proc. of the 46 th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), <i>J. Nuc. Med.</i> , 40(5):124P, Abstract no. 500 (May 1999 supplement).	
	FE	MEASE, R.C., <i>et al.</i> , "Indium-111 CDTA-(aminostyryl)pyridiniumum (di-X-asp) dyes: synthesis, canine and human leukocyte labeling, and serum stability," in Poster Sessions, Proc. of the 46 th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), <i>J. Nuc. Med.</i> , 40(5):318P, Abstract no. 1396 (May 1999 supplement).	
	FF	MISHIMA, Y., <i>et al.</i> , "Treatment of malignant melanoma by single thermal neutron capture therapy with melanoma-seeking B-compound," <i>Lancet</i> , 2(8659):388-389 (August 12, 1989).	
	FG	MISHIMA, Y., <i>et al.</i> , "First human clinical trial of melanoma neutron capture. Diagnosis and therapy," <i>Strahlentherapie und Onkologie</i> , 165(2/3):251-254 (1989).	
	FH	MOMEN, A., <i>et al.</i> , "Impact of high resolution bone spect imaging of the thoracolumbar spine on patient management in oncology," in Scientific Papers (June 9, 1999), Proc. of the 46 th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), <i>J. Nuc. Med.</i> , 40(5):124P, Abstract no. 500 (May 1999 supplement).	
	FI	NAKAGAWA, T., <i>et al.</i> , "Syntheses of chlorpromazine undecahydrododecaborate and nonahydrododecaborate -- promising agents for neutron capture therapy of malignant melanoma," <i>Chem. Pharm. Bull. (Tokyo)</i> , 24(4):778-781 (1976) [UDC 547.869.2.04; 547.244.04]	
	FJ	NEXO, E., "Cobalamin-binding proteins," Chapter 30 in <i>Vitamin B₁₂ and B₁₂ Proteins</i> , B. Krantler <i>et al.</i> , Eds., Wiley & Sons, New York (1997), pp. 461-475.	
	FK	NORENBERG, J.P., "[²¹³ Bi-DOTA ⁰ Tyr ¹]octreotide (²¹³ Bi-DOTATOC) in peptide receptor radionuclide therapy (PRRT)," in Scientific Papers (June 9, 1999), Proc. of the 46 th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), <i>J. Nuc. Med.</i> , 40(5):103, Abstract no. 415 (May 1999 supplement).	

Examiner Signature		Date Considered	2/18/05
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		First Named Inventor	Collins <i>et al.</i>		
		Group Art Unit	Unassigned 1610		
		Examiner Name	Unassigned D. Jones		
Sheet	7	of	7	Attorney Docket Number	11138.105030 MAYO 1003 CON

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TS	GA	ORDER, S.E., <i>et al.</i> , "Use of isotopic immunoglobulin in therapy," <i>Cancer Res.</i> , 40:3001-3007 (August 1980)	
	GB	PISAL, S.S., <i>et al.</i> , "Formulation of nasal gels of Vitamin B12-1: Effect of additives on thermodynamic properties of pluronic PF-127 gels," <i>Indian J. Pharm. Sci.</i> (May-June 2002), accessed November 12, 2002, at www.indianpharma.org/may-june2002/fnasalgels.html .	
	GC	PRIMUS, F.J., <i>et al.</i> , "Bispecific antibody mediated targeting of nido-carboranes to human colon carcinoma cells," <i>Bioconjugate Chemistry</i> , 7:532-535 (1996).	
	GD	RAO, P.S., <i>et al.</i> , "TC-99M labeled peptide for imaging infection," in Poster Sessions, Proc. of the 46 th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), <i>J. Nuc. Med.</i> , 40(5):319P, Abstract no. 1398 (May 1999 supplement).	
	GE	RAPPAZZO, M.E., <i>et al.</i> , "Transport function of transcobalamin II," <i>J. Clin. Invest.</i> , 51(7), 1915-1918 (July 1972).	
	GF	ROE, D.G., <i>et al.</i> , "Combinatorially designed technetium radiopharmaceuticals (CDTR TM)," in Scientific Papers, Proc. of the 46 th Annual Meeting of the Society of Nuclear Medicine (Los Angeles, California, June 6-10, 1999), <i>J. Nuc. Med.</i> , 40(5):123P, Abstract No. 499 (May 1999 supplement).	
	GG	RUSER, G., <i>et al.</i> , "Synthesis and evaluation of two new biconfunctional carboxymethylated tetrazamacrocyclic chelating agents for protein labeling with Indium-111," <i>Bioconj. Chem.</i> , 1:345-349 (1990).	
	GH	SATTELBERGER, A.R., <i>et al.</i> , "Nuclear medicine finds the right chemistry," <i>Nature Biotechnology</i> , 849-850, Vol. 17, September 1999.	
	GI	SMELTZER, C.C., <i>et al.</i> , "Synthesis and characterization of fluorescent cobalamin (CobalaFluor) derivatives for imaging," <i>Organic Letters</i> , 3(6):799-801 (2001).	
	GJ	TORAYA, T., <i>et al.</i> , "Preparation, properties and biological activities of succinyl derivatives of vitamin B ₁₂ ," <i>Bioinorg. Chem.</i> , 4:245-255 (1975).	
	GK	WILBUR, D.S., <i>et al.</i> , "Evaluation of Biotin-Dye Conjugates for Use in an HPLC Assay to Assess Relative Binding of Biotin Derivatives with Avidin and Streptavidin." <i>Bioconjugate Chem.</i> , 11(4), 584-598 (July-August 2000).	
	GL	WLBUR, D.S., <i>et al.</i> , "Biotin Reagents for Antibody Pretargeting. 4. Selection of Biotin Conjugates for in Vivo Application Based on Their Dissociation Rate from Avidin and Streptavidin." <i>Bioconjugate Chem.</i> , 11(4), 569-583 (July-August 2000).	
TS	GM	WU, C., VIRZI, F., and HNATOWICH, D.J., "Investigations of N-linked macrocycles for ¹¹¹ In and ⁹⁰ Y labeling of proteins," <i>Nucl. Med. Biol.</i> , 19(2):239-244 (1992) [<i>Int. J. Radiat. Appl. Instrum. Part B</i>].	

Examiner Signature	<i>D. Jones</i>	Date Considered	2/18/05
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